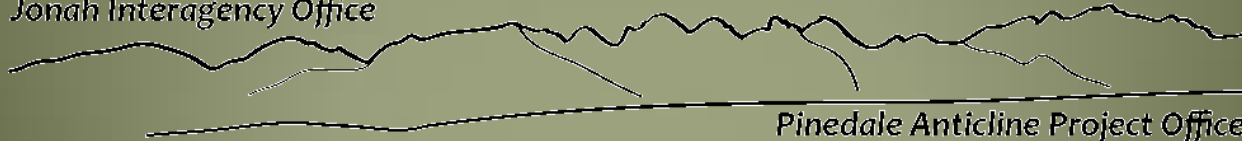


PAPO 2012 RECLAMATION MONITORING SUMMARY

Therese Hartman
Pinedale Anticline Project Office

Jonah Interagency Office



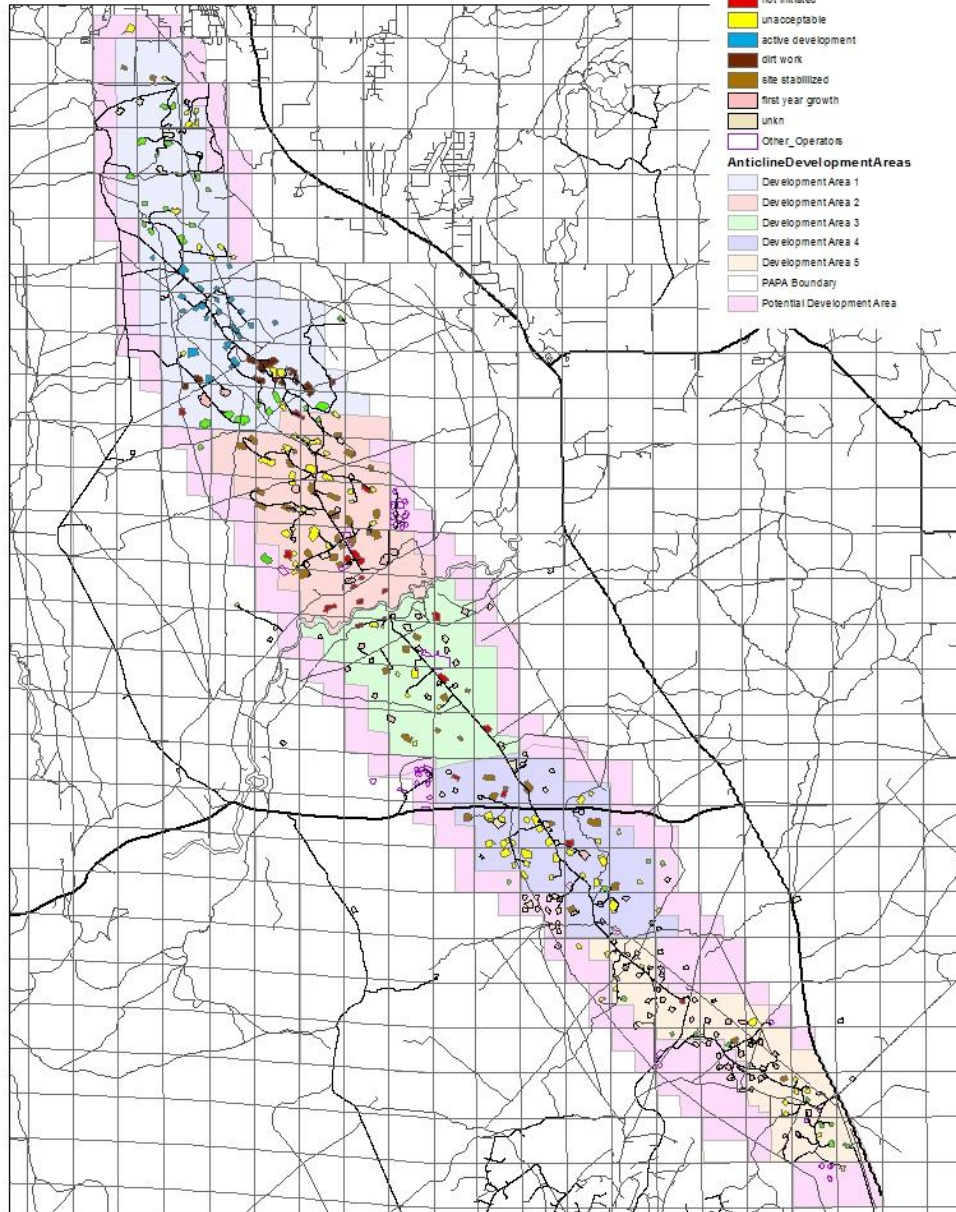
Pinedale Anticline Project Office

Reported to PADMS

AS OF 11- 2012

- 365 pad locations
- 3164 acres of disturbance
- 1278 acres in interim reclamation
 - 211 reclaimed acres are in interim reclamation full development

Pinedale Anticline Project Area



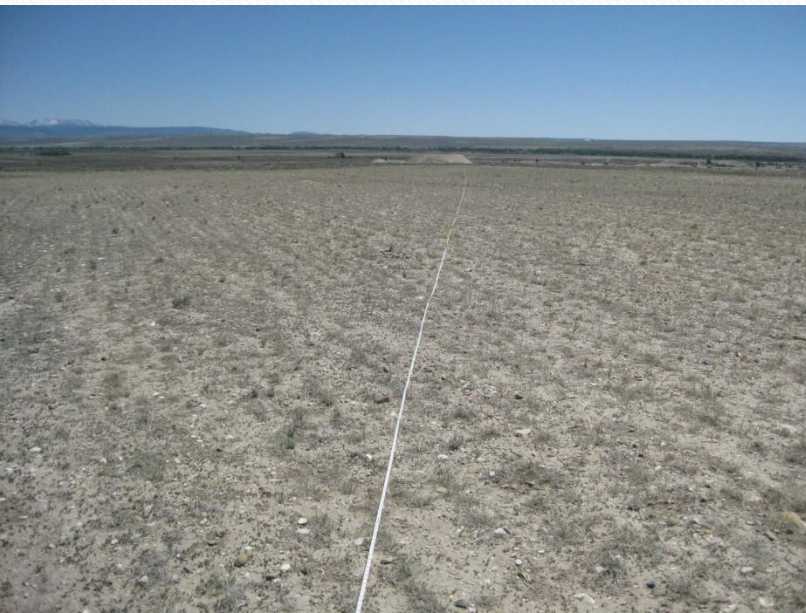
Reclamation Status



PAPO Monitoring

Monitored 136 locations

- 40 moving towards success
- 96 not moving toward success
- 30 out of compliance with ROD
- 21 written orders



On the path to success



On the path to success



On the path to success



On the path to success



Grasses



Shrubs



Forbs



What Makes the Difference?



Both seeded - fall 2007 MESA

What Makes the Difference?



Both seeded fall 2008 STEWART POINT

What Makes the Difference?



Both seeded fall 2009 WARBONNET



Climatic conditions

.....vs.....what we can control



Issue:

Poor Growth

Weedy

Little or

No Desirables



Issue:

Seeding

Methods

Source



Issue:

Poor Soil



Issue:

Hydrocarbons



Issue:

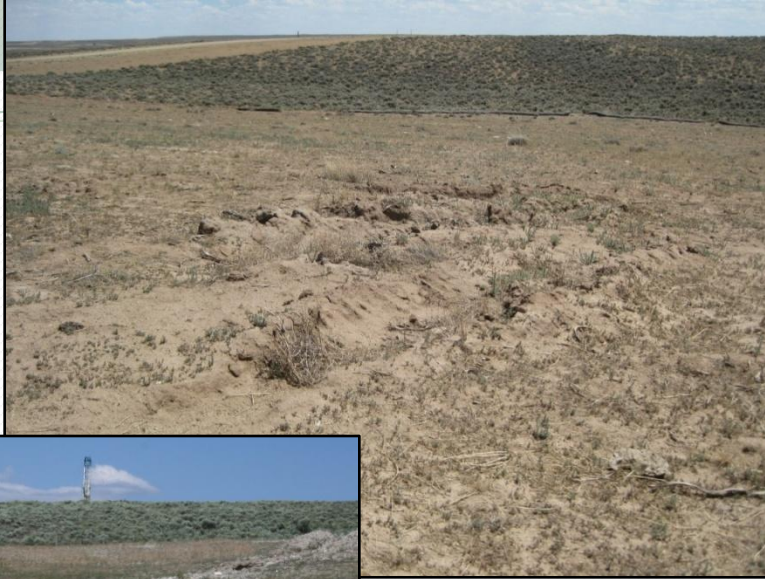
Grazing or
browsing



Issue:

Erosion

Vehicles Driving on Reclamation



Issue:

Trash



Sites could be brought in more to minimize long term disturbance



QEP



QEP Mesa 8-19



QEP Mesa 7-22



What We Think Might be Contributing to Poor Reclamation

- Potentially improper soil preparation
- Potentially seeding too late (when soil is frozen)
- Seeded too early
- Potentially mixing top soil with sub-soil
- Letting soil sit too long without testing or adding necessary soil amendments
- Hydrocarbons in soil
- Seed quality, seed source or not locally adapted species
- Lack of moisture retention

WHAT WE FOUND

- Inconsistent or inaccurate reporting to PADMS
- Questionable reference locations
- Issues could be addressed sooner
- Reclamation does not keep up with pace of disturbance

Getting from here to there.....

